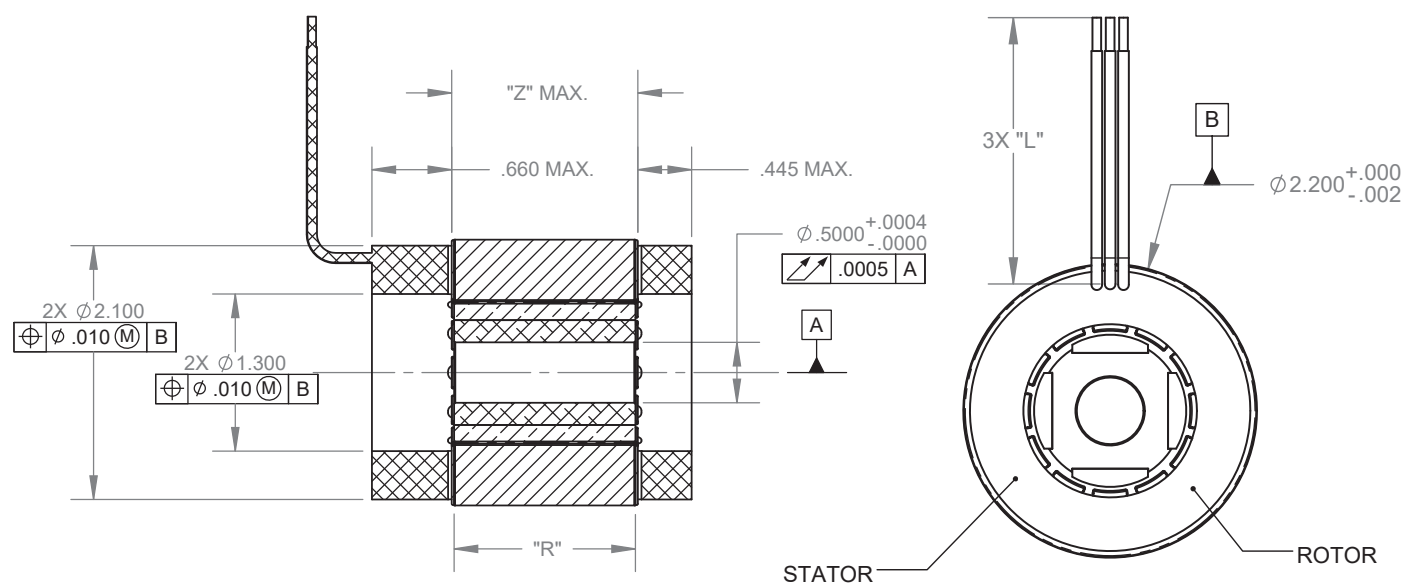
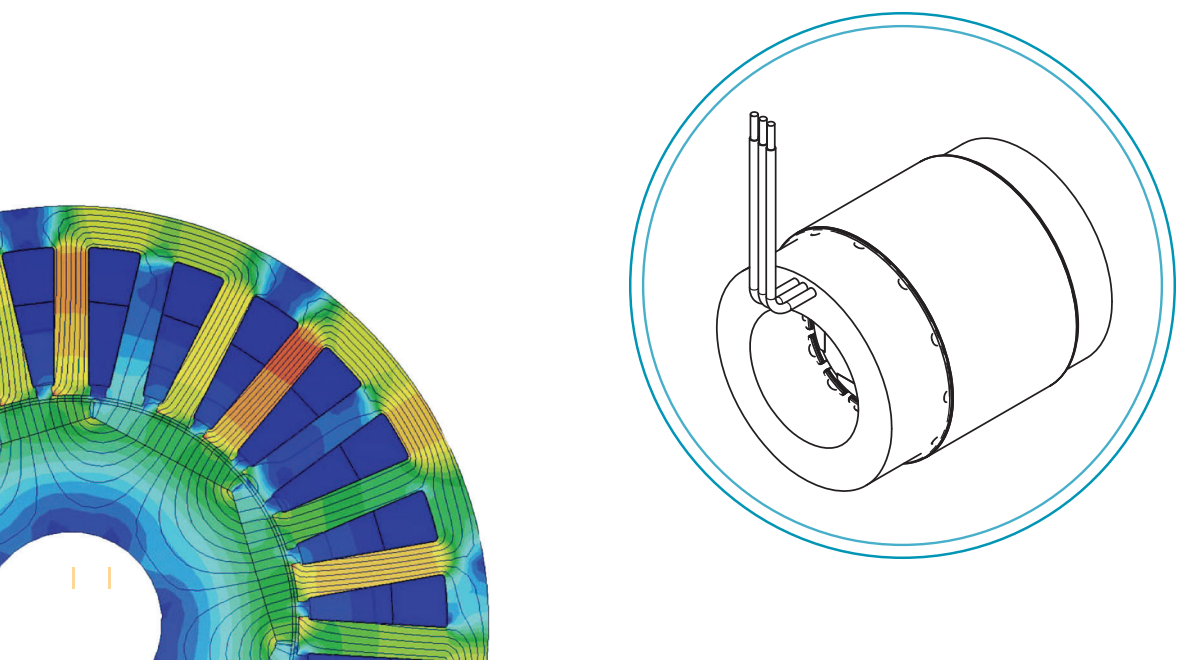


"Superior Torque" (ST) 2200 Series Technical Illustration



PART NO.	DESCRIPTION	"Z" MAX	LEAD WIRE GAGE	"L" ± .500	"R" ± .005
6100252-01	O&M DWG, 2215/8 STD ROTOR AND STATOR SET	1.570	14	12	1.500
6100252-02	O&M DWG, 2215/21 STD ROTOR AND STATOR SET	1.570	18	12	1.500
6100252-03	O&M DWG, 2220/6 STD ROTOR AND STATOR SET	2.070	14	12	2.000
6100252-04	O&M DWG, 2220/16 STD ROTOR AND STATOR SET	2.070	18	12	2.000
6100252-05	O&M DWG, 2225/5 STD ROTOR AND STATOR SET	2.570	14	12	2.500
6100252-06	O&M DWG, 2225/13 STD ROTOR AND STATOR SET	2.570	18	12	2.500



GENERIC PART NUMBER	2215/8	2215/21	2220/6	2220/16	2225/5	2225/13
STATOR OD (IN)	2.2	2.2	2.2	2.2	2.2	2.2
STATOR STACK LENGTH (IN)	1.5	1.5	2	2	2.5	2.5
ROTOR ID (IN)	0.5	0.5	0.5	0.5	0.5	0.5
ROTOR LENGTH (IN)	1.5	1.5	2	2	2.5	2.5
TURNS PER COIL	8	21	6	16	5	13
RESISTANCE (L-L)	0.176	1.21	0.119	0.847	0.092	0.658
INDUCTANCE (L-L)	0.3575	2.465	0.2645	1.88	0.227	1.535
LEAD WIRE AWG	14	18	14	18	14	18
KE (V/1KRPM, PEAK)	6.18	16.2	6.18	16.5	6.44	16.7
KT (IN-OZ/A, PEAK)	10.2	26.9	10.2	27.3	10.7	27.7
KT (IN-OZ/ARMS), TIME-AVERAGED	8.37	22	8.37	22.3	8.72	22.7
KM (IN-OZ/SQRT(W))	24.31	24.45	29.57	29.66	35.28	34.15
WEIGHT (OZ)	22.1	22.1	28.3	28.3	34.8	34.4
ROTOR INERTIA (KG-M ²)	1.81E-05	1.81E-05	2.42E-05	2.42E-05	3.02E-05	3.02E-05
POLE COUNT	4	4	4	4	4	4
COGGING TORQUE, PEAK (IN-OZ)	7.14	7.14	9.51	9.51	11.9	11.9
HYSTERESIS DRAG TORQUE (IN-OZ)	0.918	0.919	1.23	1.23	1.53	1.53
ELECTROMAGNETICS VISCOUS DRAG (IN-OZ/RPM ²)	1.91E-09	1.91E-09	2.54E-09	2.54E-09	3.17E-09	3.17E-09
DESIGN CURRENT (RMS, SINE DRIVE)	11.50	4.39	15.50	5.82	17.90	6.87
DESIGN VOLTAGE	100	270	100	270	100	270
DESIGN RPM	13000	13000	13000	13000	13000	13000
NO-LOAD RPM	16169	16631	16169	16371	15522	16119
DESIGN TORQUE (IN-OZ)	96.4	96.6	130	130	156	156
DESIGN OUPUT POWER (W)	1068	1070	1439	1441	1732	1728
ELECTROMECHANICAL EFFICIENCY AT DESIGN OUTPUT POWER	95.6	95.6	95.9	95.9	96.2	96.1

